Application No: 09/762,194 Atty Dkt No: 33339/208804

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LOCUS

AT2 receptor C-terminal end

160 BP DS-DNA

ORGANISM Mouse

BASES

41 A

33 C 36 G

50 T

Nucleic acids 1 TGTGTTAATC CCTTCCTGTA TTGTTTTGTT GGAAACCGCT

TCCAACAGAA CGTCCGCAGT GTGTTTAGAG TTCCCATTAC TTGGCTCCAA GGCAAGAGAG AGACTATGTC TTGCAGAAAA

121 GGCAGTTCTC TTAGAGAAAT GGACACCTTT GTGTCTTAAA

Translation into amino acids

CVNPFLYCFV GNRFQQNVRS VFRVPITWLQ GKRETMSCRK GS5LREMDTFVS-

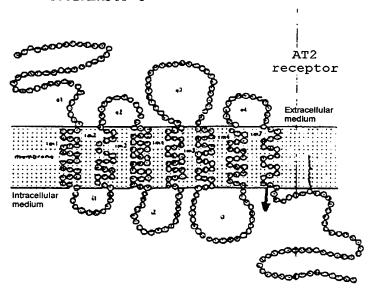


Figure 1

Sitle: NUCLEIC SEQUENCES CODING FOR AN A centor(s): Elbaz, et al.
Application No: 09/762,194
Atty Dkt No: 33339/208804

.... AGT AAC AAA GGT CAA AGA CAG TTG ACT GTA ICG

GAL4 DNA-binding domain

Multiple cloning site

Smal

CCG GAA TTC CCG GGG ATC CGT CGA CCT... Sall

EcoRI

BamHI

2/14

Figure 2

NUCLEIC SEQUENCES CODING FOR AN AT THE PLAN AT THE PLA

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	GC	TACC		ccc	CACG	CACC	cccc	AATC	τουσ	:6 00	ctgg	CAIT	AGCA'	rstk	AGCTI	GTT	TTCI	Totac	: 7 <u>1</u>
	τσ	TATO	TCT	reac	TGG.	i aca	ACCE	CGAG	TTGC	CAAG	みなみこ	ACAG	TATS1	rgaji (3G700	:ctcc	AAA	ισετο	ET 143
	TC	CCCI	GCG:	LACT?	CTC	CAC	TGGC	rcc.	AAGĄ:	M TA I	3 37 2	G 770	S TCT	p b	: 444	F TTC	s rcc	: TTA	. 204
	S TC		_ 1 _ 71	יי אם סיי		י רכ כי	R GC C1	L FA A	; ;; ;;	ا 20 ما	K (ς : 5λ C:	_ L	ı Fo	N A A A	L C CT	R C C3	i C II	77 258
	CC.						K 2	1 : 10 AC	י ני דים דיני	/ 1 C A	T I	r ; tc c:	E T	λ 5 <u>Τ</u>	5 ت ت		S G GG		
	Ç								C AT) (2 2	G AC	; ; ;; ;;	; ;	I A A GC		ם א קא:	v GTC	ے 5 د تہ	53 3 355
	rcc	S TC	E GA			G C1	 KD T.	: L	, A	, ca	Х ТА	٪ خخ عا	. т G AC.	x مناعمًا	C % TG1	ع ندی ۲	S N AGO	್ಥ ಚಾ	31 420
	S AG	G G	F	I TAT	L CT	G CA	L C CT	R C AG	. Q	L G CT	T CI		9 C CG1	l G r lagn	N AAC	N AAC	X AAG	; ; ; ; ; ; ;	99 474
	E GAA	A GCC	CIC	T S AC	V GT	v GT	G AT	Q C CA	g CA	i CTC	L CT	5 G TC:	E GAC	, R	E SAG	عدی : عدی :	A GCA	L CTG	117 523
	K	Q CAA	H H	, K	T ACC	ئ ۲0 ت	c 10°	Q CA		L	v GT:	3 2 AGC	L CTC	icea	G GGA	E GAG	L CTA	V GTT	1)5 582
1	A GCT	A GCT	s KOT	S AGC	A GCC	C TG	E GAG	K S AAG	CI	ع د	X 1 AA0	A 5 GCT	R : AGG	ISCT	D GAC	L	Q CAG	T ACA	153 63 <i>5</i>
	A SCO	Y TAT	CYY	E SAA	11.1 5	V GT:	Q CAC	K AA:	L	N AAC	Q CAC	Q SAG	H	Q C÷.G	T ACA	S S S S S S	R CGG	T ACS	171 690
	e Gaa	CTG L	E GAG	N AAC	R	CTC	χ λλο	D GAC	C TTA	? TAC	T ACC	A BCA	E GAG	, .::::	E GAG	YYC K	L CTT	CY2 5	199 744
	S AGC	I ATT	Y TAC	Z ATT	E Gag	E GAG	A GCA	E GAA	, A AA	Y TAT	X Aaa	T ACT	Q SAA	CTS	CYY Ö	E GAG	Q CAG	rrr F	207 798
رو	C GAC	N AAC	l TTA	N	A GCC	A GCC	CYJ H	E GAG	T ACC	T ACT	χ AλG	:	Ξ GλG	= A==	E GAA	A GCT	S AGC	H CAC	225 852
	s TCG	S Syc	K AAG	v GTG	S AAD	L TTG	cTG	AAG	X AAG	T ACC	Y TAT	E GÀA	T ACC	S TC:	CTT	S TCA	E GAA	: ATC	243 906
	YYC K	K AAG	S AGC	H CAT	E GAG	M ATG	E GAG	K AAG	K AAG	S TCA	L CTG	E SAS	באבן באבן	L CTG	i cit	N AAT	E GAG	к aag	251 950
~	Q CAG	GY7	5 7CG	L CTG	SYC	XXX	CAA	I ATC	N AAT	S GAT	L CTG	X AAG	AGT,	E GAA	N AAC	D SAT	A GCT	E TTA	279 1014
3	YYC N	CYY	R AGG	L TTG	K AAA	S TCA	eye E	E GAG	Q CAA	K K	Q CAA	====	S TCA	E AGA	E GAG	X X	acc .	N XXT	297 10€a
	S TCC	K AAA	yyc N	PCCT	Q CAG	V CTC	ATG	Y TAT	C10 L	E DAG	Q CAA	Ξ Gغغ	S. CTA	S G.A.A.	S AGC	· ctg .	K AAG (i.	315 1131
								Fic	īur	e 3	1. :								

Figure 3.:



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																			333 1176
,		gaa	•••	_	V GTG	•	-	N AAC	_	ĞÇ A		or:	D GAC	K AAG	CTG	K AAG	R CSA	F	351 1230
4	Q CAG	Q CAG	E GAA	AAC N	E GAG	S GAG	L TTA			SGC		D GAC		₽ ¢ac	H ATG	A GCA	I ATT	S	369 1294
		cyy		S TCC		E GAG	Q CAG	A GCC			_	E GAG	_		E GÀG	• • •			387 1338
		otc	N AAC	K AAG	R AGA		S TCC						L CTT	CIG.	w TGG		t cts	exc cxc	405 1392
		G GGA	D GAC	L CTG	76C C	S AGC						T ACC		S ‡CG	A GCC	_	-	-	423 1445
																		TGA	440 1500
	CCGC	וסדדנו	GAAC	GCAC	GAGA	CTCT	CTGA	JGGC	ACTO	AGGT	rgege	TTC	CCAG	GACT	GYCC	CTCI	CATO	igga	1571
														l			TATO		1643
														i			TAQA:		1713
						TGCA	CAAA.	GCAC	TTAC	ggaa	.CGAG	GGAA	.CCTT	GITC	TTIG	CCTI	CCTI	CAC	1784
	CTAA	GCAI	'AGGC	TITC	CAG														1863

Figure 32

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	caç	cgtg	acgo	ggtt	caga	ggca	gete	SEAG	Acst	gcag	.g≫	Çaga	ttgt	: . •	agag	gaag	agca	ccas	- 72
	ttg	gcaa	cato	tgaa	ageg	4444	cgga	agco	3944	acac	ttgg	ccag	ccct	\$966	gati	====	tett	CTAL	3 144
	ccz	ctgt	gçtg	çaac	gece.	EEEg	csçc	gtag	gcal	cttt	cetc	tgac	tgta	ecc.	ttgg	cztc	gaag	açta:	215
	cga	gctt	aaaa	agac	agta	cgcg	acag	tesa	cgga	3352	gesc	e E E C	eg = g	iaa:	====	SCAC	cege	ecc;	223
	aga	c AT								C TT		عد ع				A CG		G AC	
			L	_	. s	P	• • • • • • • • • • • • • • • • • • • •		S CGA	-	5				_	-	_		17 197
	A A	K	G	L	L	R	N	L	3	L	5	5	5	7	9	R	S	T	35
	GTT V	GTT V	TTC F	CAC H	ACA T	GTT V	Ē	AAG K	λGC \$	AGG R	CAA Q	aag K	AAT N	CCT ?	CGA R	AGC S	TTA L	TGT C	451 53
	ATC I	CAG	CCA P	CAG	ACA	CCT	ccc	GAT	GCG	CTG L	ccc ?	CCT	GλG E	٨٨٨	ACA T	CIT	Gλλ E	TTG L	505 71
	ACG	CAA	TAT	۔ ھدھ	λζλ				AAC									พระ	559
	T	Q	Y	x	7	K	С	Σ	N	Q	5		F	;		Q	<u>د</u>	K	39
	CAG Q	CTT	CII	GCC A	C	GGT	AAT N	ACC T	K	TT F	GAS E	GCY.	L	T	A.	٠ د د د	ATT I	C Q	613 137
	CAC H	CTG L	CTG L	TCT S	GAG E	csc R	GAG Z	GAA E	GÇA A	CTG L	K	CAA	CAC K	XXX K	ACC T	CTA L	TCT S	CAA	657 125
1	GYY -	CTT	CIT	AAC N	CTC	CGG R	GGA G	GAG E	CTA	GTC	ACT	GCT A	TCA S	ACC	ACE T	TGT C	GAG E	AAA K	72 <u>1</u> 143
	TTA	GYY	۸ند	GCC	λGG	AAT	GAG	TTA	CAA	ACA	GTG	TAT	GAA	GCA	TTC	GTC	CAG	CAG	775
	L	3	x	A .	3	Ŋ	Ξ	Ŀ	Q	Ţ	"	Y	ع	λ	7	v	Q	3	151
	CAC H	CAG Q	GCT A	ςλλ Σ	K	ACA T	GAA E	CGA R	GAG S	AAT N	CGG R	CT:	K K	GAG E	::: :	TAC Y	ACC T	AGG R	529 173
	GAG E	TAT	GAA E	MG K	CTT	CGG R	GAC	ACT T	TAC Y	ATT I	GAA E	GAA E	GEA A	GAG	AAG K	TAC Y	AAA X	ATS H	993 197
		TTG				_				AAT	GCG	CAT	GAA	ACC	TOT	AAG	TTG	GAA	ינכ
2,	Q	Ł	Q	E	Q	7	פ	N	L	N	λ	H	Ε	T	5	K		Ξ	215
•	ATT	GAA E	GCT A	AGC S	CAC H	TCA S	GλG S	aaa K	CTT C	E Cyv	TTG L	CTA 5	AAG K	AAG K	GCC A	TAT Y	GAA E	GC:	991 233
				GAA					CAT	GAA E	ATA I	GAA E	AAG K	ميد ×	TCG S	CTT	GAA S	GA.T	1045 251
		L		ξ		ĸ	ĸ	<u> </u>	<u>я</u>						GAT	270		AGT	1090
	TTA L	CTT L	TCT	GλG E	X K	CAG Q	E E	TCG 5	L	GAG E	AAG K	SYY	ATC.	AAT N	2,	- 20	K	s	269
3	GAA E	AAT N	GAT D	GCT Å	TTA	AAT N	ĒΥΥ	***	TTG L	XXX	TCA 5	SAA E	GAA Ž	CAA Q	نند ۲	ASA R	AGA R	GCA A	1153 287
	AGA R	GAA E	AAA K	GCA A	W.	TTG L	AAA K	AAT N	CCT	CAG	ATC I	ATC M	TAT Y	CTA L	GAA E	S CYG	GAG E	TTA L	1207 305

Figure 41

ventor(s): Elbaz, et al. Application No: 09/762,194 Atty Dkt No: 33339/208804

GAA AGC CTG AAA GCT GTG TTA GAG ATC AAG MAT GAG AAA CTG CAT CAA CAG GAC 1261 E S L K A V L E I K N E K L H O G D 323 ATC AAG TTA ATG AAA ATG GAG AAA CTG GTG GAC AAC AAC ACA GCA TTG GTT GAC I K L N K H E K L V D N N T A L V D MA TTO ANG COT TTC CAG CAG GAG ANT GAN GAN TTG ANA GET COO ATG GAC ANG
K L K R F Q Q E N E E L X A R M C K CAC ATG GCA ATC TEA AGG CAG CTT TCC ACS GAG CAG GCT GTT CTG CAA GAG TCG H M A I S R Q L S T E Q λ V L Q E S CTG GAG AAG GAG TCG AAA GTC AAG AAG CGA CTG TCT ATG GAA AAC GAG GAG CTT L E K E S K V N K R L S H E N E E L TCC GCC ATC CCT TTG CAG TCA CCA AGG AAT TCG GGC TCC TTC CCT AGC CCC AGC S A I P L Q S P R N S G S F P S P S ATT TCA CCC AGA TGA cacytececaaagtetacagactetttgaaaggaattttgatgcaggtetgc 1651 aggactgaccccaaggaggaccgtgggcacaagaggtatatcagcacacgtgtgatcaccgtaggtaactgg 1723 agogecaccaccqqcqqaatcqagcttctqaqactqqqaqtctqqaqqcaqqcettctqcctccaaaaq 1795 attoctccaaaaaaagatttaaaaaaagattteggtattgacatggacgttgtkgcacaaagcatttaaaaga 1967 acgagageatettgtteattgcetttttcacetaageataaggggaaaaactetcagggcettattaagatt 1939 tataacetttgtaatgteetteaceacagacacettettgtgagtttttagtstgaetgtgggggtgggggg 2011 tgtgaatgaaatggatgtcacagagtgccatgt;tttgatgcaqcctttttttgtgtgtattaaatgtcaaa 2083 atotgaatatatotggatatgtactaatcaaataataatcaatcaatcagcatatacatttcagccaaagcc 2155 atagaagaaaaagcaatagttgcttgaattatgatcatctacsaccaacttgctcaqccctgtaacagggt 2227 agggagagggtataacaggaagagettsgacttgtccctgtctatatattctctgtgtgtatcttttgggggtaac 2299 contrigatoraccontgragatoraaccigtoriotticotticotatiastoreacticotticaccontri atgattttccagagccctagagccagctcatcttccaggcgctgaeaccactttccaastaaactaaagcct 2731 ggatttgacattacaaattttgggaaattttagaatsaaqaacgag4icaaggbagtcattggct2gtataa 2803 ttaagaaaggtaggattcagtgcttactgatgatgtagttcttgcthjaagaapacagtctgggaggatage 2975 gotcattttcagttaccctttaaggagtesetttttttttttttaggaaaqtagcagaatggtocgcttttttc 2947 catgagtggaaaacgtggcttgtccaactctcctscaggttgcallttagtttcttccaaaacttattacc 3019

Figure 4.2

Tit NUCLEIC SEQUENCES CODING FOR AN AT2.

In (s): Elbaz, et al. Apprecation No: 09/762,194 Atty Dkt No: 33339/208804

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Figure 4.3

Title: NEXEIC SEQUENCES CODING FOR AN AT2 . . . Invent Elbaz, et al.
Application No: 09/762,194
Atty Dkt No: 33339/208804

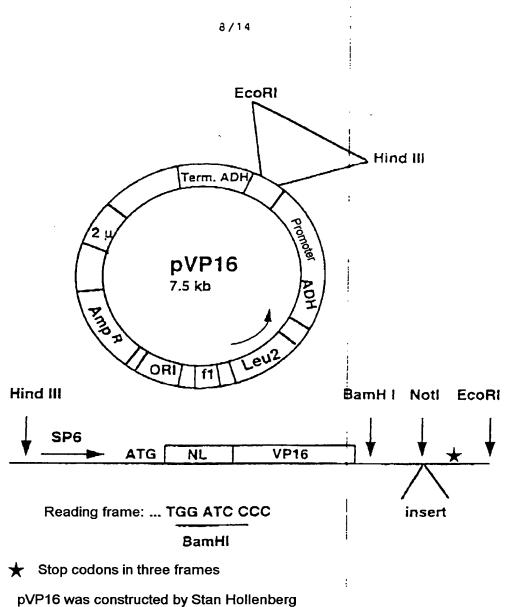


Figure 5

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6 histidines

ATG	GAT	10C	CGA	AAG	•
GGT		TGG GGA TCC	ATT CG	AGG	TAG
CAT GGT	ger cee		Ban GGA ATT	GAA	AAC
CAT	CAA ATG	TAC GAC GAT GAC GAT AAG GAT CGA	TAC CAT	CTA ACA AAG CCC GAA AGG AAG	TGG CTG CCG CTG AGC AAT AAC TAG
CAT CAT	CAA	GAT	TAC	AAG	AGC
CAT		AAG	TGG	ACA	CTG
CAT	GGT GGA CAG	GAT	CTC GAG ATC TGC AGC TGG	CTA	ව්ධ
CAT	GGT	GAC	IGC	CTG	CCA
TCT	ATG ACT	GAT	ATC	ອອວ	CTG
GGT	ATG	GAC	GAG	TTG ATC CGG	TGG
000	AGC				AGT
98. ATG CGG GGT TCT CAT CAT	GCT	CTG	GAG	AGC	CTG
98.	134	170	206	242	278

77620947621194

Title: LEIC SEQUENCES CODING FOR AN AT2...
Invent Elbaz, et al.
Application No: 09/762,194
Atty Dkt No: 33339/208804

10/14

דאכ ככא, מככ כדד כדב דדד נאכ דאם אמא כדי כדד כדם כאכן ככד אסם ככד דאא מאד כום ATG GOT CCG GAA CAG AAA CTG ATC TCT GAA GAA CAC CTG GOA TCC GGA ATT CTA GA Het gly pro glu gln lys leu ile ser glu glu asp leu gly ser gly ile leu

Tag Myc

Application No: 09/762,194 Atty Dkt No: 33339/208804

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CHO-hAT2

Lectin column

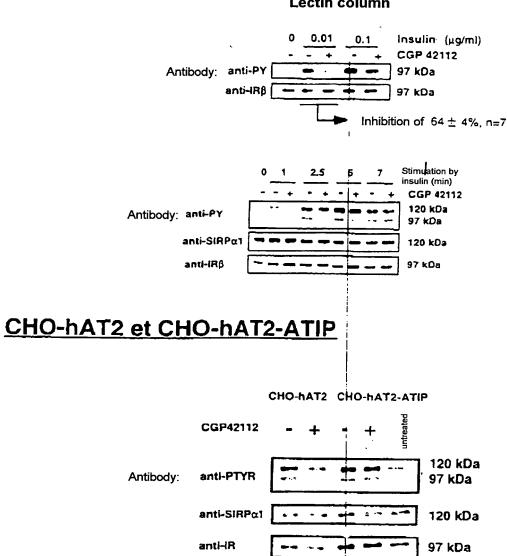
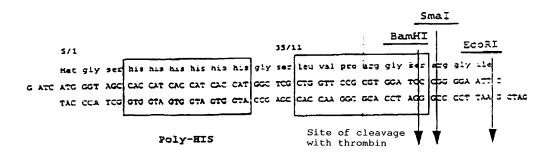


Figure 11

Application No: 09/762,194 Atty Dkt No: 33339/208804

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pBacPAKI-poly HIS -> Graphic Map

PolyHIS insertion into pBackpack in BamHI(CACCAT) 1270-1287

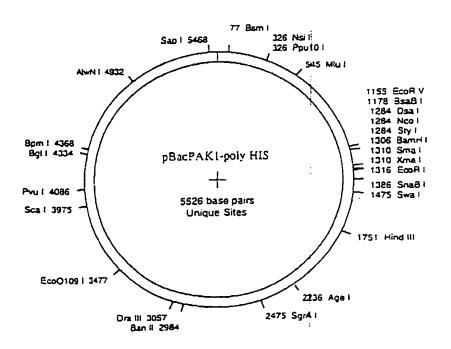


Figure 8

TO JUCLEIC SEQUENCES CODING FOR AN AT2 FIGURE 1. Application No: 09/762,194 Atty Dkt No: 33339/208804

12/14

Tissues:

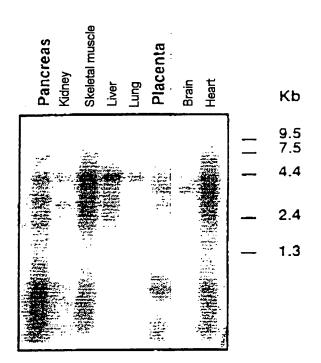


Figure 9

100

ŀ	3	/	ı	9

	▲ MBP-AT2	GST-ATIP GSTalone		
-AT1		14	ı	+
MBP-AT2 MBPv MBP-AT1			+	ı
3Pv		Ħ	1	+
M			+	1
AT2		11	1	+
MBP-	1		+	ı
2	1	11	ΠP	e E
	KDa 48	40 33	GST-ATIP	GSTalone
	Antibodies anti-MBP	anti-GST	0	Degans.

Supernatants: